

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=10; day=10; hr=10; min=14; sec=5; ms=784; ]

=====

Application No: 10575671 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2008-09-09 15:28:51.416  
**Finished:** 2008-09-09 15:28:54.162  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 746 ms  
**Total Warnings:** 9  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 300  
**Actual SeqID Count:** 300

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (167)
W 213	Artificial or Unknown found in <213> in SEQ ID (172)
W 213	Artificial or Unknown found in <213> in SEQ ID (181)
W 213	Artificial or Unknown found in <213> in SEQ ID (188)
W 213	Artificial or Unknown found in <213> in SEQ ID (197)
W 213	Artificial or Unknown found in <213> in SEQ ID (205)
W 213	Artificial or Unknown found in <213> in SEQ ID (211)
W 213	Artificial or Unknown found in <213> in SEQ ID (220)
W 213	Artificial or Unknown found in <213> in SEQ ID (229)

SEQUENCE LISTING

<110> MESSMER, Bradley T  
CHIORAZZI, Nicholas  
ALBESIANO, Emilia

<120> METHODS AND COMPOSITIONS FOR DIAGNOSIS AND TREATMENT OF B CELL  
CHRONIC LYMPHOCYTIC LEUKEMIA

<130> 50425/245

<140> 10575671

<141> 2008-09-09

<150> US 10/575,671 (US Natl Phase of PCT/US2004/033176)

<151> 2004-10-08

<150> US 60/509,473

<151> 2003-10-08

<160> 300

<170> PatentIn version 3.3

<210> 1

<211> 4

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (4)..(4)

<223> X = His or Gln

<400> 1

Cys Ala Arg Xaa

1

<210> 2

<211> 11

<212> DNA

<213> Homo sapiens

<400> 2

tgtgcgagac a

11

<210> 3

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3

Gly Tyr Ser Ser Ser Trp Tyr

1 5

<210> 4

<211> 21

<212> DNA

<213> Homo sapiens

<400> 4

gggtatagca gcagctggta c

21

<210> 5

<211> 4

<212> PRT

<213> Homo sapiens

<400> 5

Asn Trp Phe Asp

1

<210> 6

<211> 12

<212> DNA

<213> Homo sapiens

<400> 6

aactggttcg ac

12

<210> 7

<211> 18

<212> PRT

<213> Homo sapiens

<400> 7

Cys Ala Ser Ser Arg Gly Tyr Ser Ser Ser Trp Trp Ser Ser Asn Trp

1 5 10

15

Phe Asp

<210> 8

<211> 54

<212> DNA

<213> Homo sapiens

<400> 8

tgtgcgagct ccagagggtta tagcagcagc tggtggtcat ctaactggtt cgac

54

<210> 9  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 9

Cys Ala Arg His Leu Gly Tyr Ser Ser Ser Trp Tyr Gly Ala Ala Asn  
1 5 10 15

Trp Phe Asp

<210> 10  
<211> 57  
<212> DNA  
<213> Homo sapiens

<400> 10

tgtgcgagac atctggata tagcagcagc tggtaggg cagccaaactg gttcgac 57

<210> 11  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 11

Cys Ala Arg Arg Phe Gly Tyr Ser Ser Ser Trp Tyr Gly Leu Asp Trp  
1 5 10 15

Phe Asp

<210> 12  
<211> 54  
<212> DNA  
<213> Homo sapiens

<400> 12

tgtgcgagac ggttcggtta tagcagcagc tggtagggtt tagactggtt cgac 54

<210> 13  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 13

Cys Ala Arg Ser Thr Gly Ala Ser Ser Ser Trp Tyr Ser Trp Arg Asn  
1 5 10 15

Trp Phe Asp

<210> 14  
<211> 57  
<212> DNA  
<213> Homo sapiens

<400> 14  
tgtgcgaggt cgaccggta tagcagcagc tggtaacttt ggcgcaattt gttcgac 57

<210> 15  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 15

Cys Ala Arg Gln Ala Gly Tyr Ser Ser Ser Trp Tyr Gly Pro Ser Asn  
1 5 10 15

Trp Phe Asp

<210> 16  
<211> 57  
<212> DNA  
<213> Homo sapiens

<400> 16  
tgtgcgagac aagctggta tagcagcagc tggtaacggcc cctccaactg gttcgac 57

<210> 17  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 17

Cys Ala Arg His Glu Gly Tyr Ser Ser Ser Trp Tyr Arg Ser Asp Trp  
1 5 10 15

Phe Asp

<210> 18  
<211> 54  
<212> DNA

<213> Homo sapiens

<400> 18

tgtgcgagac atgaggggta tagcagcagc tggcacagga gcgactggtt cgac 54

<210> 19

<211> 4

<212> PRT

<213> Homo sapiens

<400> 19

Cys Ala Arg Gly

1

<210> 20

<211> 11

<212> DNA

<213> Homo sapiens

<400> 20

tgtgcgagag g

11

<210> 21

<211> 6

<212> PRT

<213> Homo sapiens

<400> 21

Val Asp Thr Ala Met Val

1 5

<210> 22

<211> 20

<212> DNA

<213> Homo sapiens

<400> 22

tgggatacag ctatggttac

20

<210> 23

<211> 11

<212> DNA

<213> Homo sapiens

<400> 23

attactacta c

11

<210> 24

<211> 15

<212> PRT

<213> Homo sapiens

<400> 24

Cys Ala Arg Gly Tyr Gly Asp Thr Pro Thr Ile Arg Arg Tyr Tyr  
1 5 10 15

<210> 25

<211> 45

<212> DNA

<213> Homo sapiens

<400> 25

tgtgcgagag gatacgggga tacacctacc attagaagat actat 45

<210> 26

<211> 15

<212> PRT

<213> Homo sapiens

<400> 26

Cys Ala Arg Gly Tyr Ala Asp Thr Pro Val Phe Arg Arg Tyr Tyr  
1 5 10 15

<210> 27

<211> 45

<212> DNA

<213> Homo sapiens

<400> 27

tgtgcgagag gatatgcgga tactcctgtg tttcgccgct actac 45

<210> 28

<211> 15

<212> PRT

<213> Homo sapiens

<400> 28

Cys Ala Arg Gly Trp Gly Asp Thr Pro Met Leu Lys Arg Tyr Tyr  
1 5 10 15

<210> 29

<211> 45

<212> DNA

<213> Homo sapiens

<400> 29

tgtgcgagag gctgggggga tacacctatg cttaaaagat actac 45

<210> 30  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 30

Cys Ala Arg Ala Tyr Pro Asp Thr Pro Met Val Arg Arg Tyr Tyr  
1 5 10 15

<210> 31  
<211> 49  
<212> DNA  
<213> Homo sapiens

<400> 31  
tgtgcgagag catacccgga tacacctatg gtcaggaggt actaccarg 49

<210> 32  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 32

Cys Ala Arg Gly Phe Pro Asp Thr Asp Val Ile Lys Arg Tyr Tyr  
1 5 10 15

<210> 33  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 33  
tgtgcgagag gttcccgga tacagatgtg attaaggct actac 45

<210> 34  
<211> 4  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = Asp or Glu

<400> 34

Cys Ala Arg Xaa  
1

<210> 35  
<211> 11  
<212> DNA  
<213> Homo sapiens

<400> 35  
tgtgcgagag a 11

<210> 36  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 36

Val Gln Trp Leu Val  
1 5

<210> 37  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 37  
gggtatagca gtggctggta c 21

<210> 38  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 38

Tyr Phe Asp Tyr  
1

<210> 39  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 39  
actactttga ctac 14

<210> 40  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 40

Cys Ala Arg Glu Gln Trp Leu Val Leu Glu His Tyr Phe Asp Tyr  
1 5 10 15

<210> 41  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 41  
tgtgcgaggc agcagtggct ggtacttgag cactactttg actac 45

<210> 42  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 42

Cys Ala Arg Val Gln Trp Leu Gly Leu Arg His Phe Asp Tyr  
1 5 10

<210> 43  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 43  
tgtgcgagag tgcagtggct gggcttaaga cacttgact ac 42

<210> 44  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 44

Cys Ala Arg Glu Gln Trp Leu Gly Ala Glu Asn Phe Asp Tyr  
1 5 10

<210> 45  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 45  
tgtgcgagag agcagtggct gggcgccagaa aacttgact ac 42

<210> 46  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 46

Cys Ala Arg Glu Gln Trp Leu Val Leu Lys Asn Phe Asp Tyr  
1 5 10

<210> 47

<211> 42

<212> DNA

<213> Homo sapiens

<400> 47

tgtgcgaggg agcagtggct ggtactgaaa aactttgact ac 42

<210> 48

<211> 14

<212> PRT

<213> Homo sapiens

<400> 48

Cys Ala Arg Val Gln Trp Leu Leu Leu Glu Arg Phe Asp Tyr  
1 5 10

<210> 49

<211> 42

<212> DNA

<213> Homo sapiens

<400> 49

tgtgcgagag ttcaagtggtt attactcgaa cgatttgact ac 42

<210> 50

<211> 14

<212> PRT

<213> Homo sapiens

<400> 50

Cys Ala Arg Asn Gln Trp Leu Gly Leu Asp Tyr Phe Asp Tyr  
1 5 10

<210> 51

<211> 42

<212> DNA

<213> Homo sapiens

<400> 51

tgtgcgagaa accagtggct gggtctcgac tactttgact ac 42

<210> 52

<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 52

Cys Ala Arg Glu Gln Trp Leu Val Arg Thr Ser Phe Asp Tyr  
1 5 10

<210> 53  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 53

tgtgcgagag agcagtggct ggtaaggacg agctttgact ac 42

<210> 54  
<211> 11  
<212> DNA  
<213> Homo sapiens

<400> 54

actttgacta c 11

<210> 55  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 55

Val Gln Trp Leu Val  
1 5

<210> 56  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 56

gggtatacgca gtggctggta c 21

<210> 57  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 57

Cys Ala Arg Glu Gln Trp Leu Val Leu Ser Tyr Phe Asp Tyr  
1 5 10

<210> 58  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 58  
tgtgcgaggg agcagtggct ggtcctatct tactttgact ac

42

<210> 59  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 59

Cys Ala Arg Glu Gln Trp Leu Val Leu Asn Tyr Phe Asp Tyr  
1 5 10

<210> 60  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 60  
tgtgcgaggg agcagtggct ggtacttaac tactttgact ac

42

<210> 61  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 61

Cys Ala Arg Glu Gln Trp Leu Ala Leu Lys Pro Phe Asp Tyr  
1 5 10

<210> 62  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 62  
tgtgcgagag agcagtggct ggccttaaaa cccttgact ac

42

<210> 63  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 63

Cys Ala Arg Lys Gln Trp Leu Ala Ile Val Asn Tyr Phe Asp Tyr  
1 5 10 15

<210> 64  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 64  
tgtgcgagaa agcagtggct ggccatcgta aactacttg actac 45

<210> 65  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 65

Cys Ala Arg Glu Gln Trp Leu Gly Leu Pro Thr Phe Asp Tyr  
1 5 10

<210> 66  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 66  
tgtgcgagag agcagtggct gggtctacct acctttgact ac 42

<210> 67  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 67

Cys Ala Arg Val Gln Trp Leu Gly Leu Thr Gly Pro Asn Asp Tyr  
1 5 10 15

<210> 68  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 68  
tgtgcttaggg ttcaagtggct gggcctgacg gggccgaatg actac 45

<210> 69  
<211> 14  
<212> PRT

<213> Homo sapiens

<400> 69

Cys Ala Arg Gly Gln Trp Leu Val Ile Leu Asn Phe Asp Tyr  
1 5 10

<210> 70

<211> 42

<212> DNA

<213> Homo sapiens

<400> 70

tgtgcgaggg gacagtggct ggtcatccta aactttgact ac 42

<210> 71

<211> 14

<212> PRT

<213> Homo sapiens

<400> 71

Cys Ala Arg Asp Gln Trp Leu Pro Thr Asn Asn Phe Asp Tyr  
1 5 10

<210> 72

<211> 42

<212> DNA

<213> Homo sapiens

<400> 72

tgtgcgagag atcagtggct gcccacgaac aactttgact ac 42

<210> 73

<211> 14

<212> PRT

<213> Homo sapiens

<400> 73

Cys Ala Arg Glu Gln Trp Leu Val Leu Ser His Phe Asp Tyr  
1 5 10

<210> 74

<211> 42

<212> DNA

<213> Homo sapiens

<400> 74

tgtgcgaggg agcagtggtt ggtactatct cactttgact ac 42

<210> 75  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 75

Tyr Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Tyr  
1 5 10

<210> 76  
<211> 37  
<212> DNA  
<213> Homo sapiens

<400> 76  
gtattatgt tacgttggg ggagttatcg ttatacc

37

<210> 77  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 77

Asp Ala Phe Asp Ile  
1 5

<210> 78  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 78

tgatgctttt gatgtc 16

<210> 79  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 79

Cys Ala Arg Gly Gly Asp Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Ser  
1 5 10 15

Asn Asp Ala Phe Asp Ile  
20

<210> 80  
<211> 66

<212> DNA  
<213> Homo sapiens

<400> 80  
tgcgagag gaggcatta tgattacgtt tggggagtt atcgtaaa tcatgtttt 60  
  
gatatc 66

<210> 81  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 81

Cys Ala Arg Gly Gly Ile Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Pro  
1 5 10 15

Asn Asp Ala Phe Asp Ile  
20

<210> 82  
<211> 66  
<212> DNA  
<213> Homo sapiens

<400> 82  
tgcgagag gggattta tgattacgtt tggggagtt atcgccaa tcatgtttt 60  
  
gatatc 66

<210> 83  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 83

Cys Ala Arg Gly Gly Asn Tyr Asp Tyr Ile Trp Gly Ser Tyr Arg Ser  
1 5 10 15

Asn Asp Ala Phe Asp Ile  
20

<210> 84  
<211> 66  
<212> DNA  
<213> Homo sapiens

<400> 84  
tgcgagag gaggcaatta tgattacatt tggggagtt atcgccaa tcatgtttt 60

gatatc

66

<210> 85  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 85

Cys Ala Arg Gly Gly Asp Tyr Asp Tyr Val Trp Gly Ser Tyr Arg Pro  
1 5 10 15

Asn Asp Ala Phe Asp Ile  
20

<210> 86  
<211> 66  
<212> DNA  
<213> Homo sapiens

<400> 86

tgtgcgagag ggggggattta tgattacgtt tgggggagtt atcgccgaa tcatgccttt 60

gatatc

66

<210> 87  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 87

Cys Ala Arg Gly Gly Asn Tyr Asp Tyr Ile Trp Gly Ser Tyr Arg Ser  
1 5 10 15

Asn Asp Ala Phe Asp Ile  
20

<210> 88  
<211> 66  
<212> DNA  
<213> Homo sapiens

<400> 88

tgtgcgagag gaggcaattta tgattacatt tgggggagtt atcgcccaa tcatgccttt 60

gatatc

66

<210> 89

<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 89

Ile Thr Met Val Arg Gly Val Ile Ile  
1 5

<210> 90  
<211> 31  
<212> DNA  
<213> Homo sapiens

<400> 90  
gttattactat ggttcgggga gttattataaa c

31

<210> 91  
<211> 11  
<212> DNA  
<213> Homo sapiens

<400> 91  
attactacta c

11

<210> 92  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 92

Cys Ala Glu Gly Met Val Gln Gly Val Ile Gly Ile Tyr Tyr Tyr  
1 5 10 15

<210> 93  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 93  
tgtgcggagg gtatggttca gggagttatt ggaatttact actac

45

<210> 94  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 94

Cys Ala Arg Ser Met Val Gln Gly Val Ile Asn Val Leu Tyr Tyr  
1 5 10 15

<210> 95  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 95  
tgtgcgaggt ctatggttca gggagttatt aacgtcctct actac 45

<210> 96  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 96

Cys Ala Arg Ala Met Val Arg Gly Val Ile His Leu Asp Tyr Tyr  
1 5 10 15

<210> 97  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 97  
tgtgcgaggg ctatggttcg gggagttatt cacttgact actac 45

<210> 98  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 98

Cys Ala Arg Val Met Val Arg Gly Val Ile Ser Leu Asp Tyr Tyr  
1 5 10 15

<210> 99  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 99  
tgtgcgagag ttatggttcg gggagttatt tccctggact actac 45

<210> 100  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 100

Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly  
1 5 10

<210> 101  
<211> 35  
<212> DNA  
<213> Homo sapiens

<400> 101  
attactacta ctactacggt atggacgtct ggggc 35

<210> 102  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 102  
Cys Ala Arg Asp Ala Asn Gly Met Asp Val